

## Cisco Cisco Intro to Networks Fall 2017 CIS 162 course syllabus CRN 10183

### Basic Course Information

Semester	<b>Fall 2015</b>	Instructor Name	<b>Gordon Bailey</b>
Course Title & #	<b>Cisco Intro to Networks CIS 162</b>	Email	<b>gordon.bailey@imperial.edu</b>
CRN #	<b>10183</b>	Webpage (optional)	
Room	<b>901</b>	Office	<b>805</b>
Class Dates	<b>14<sup>th</sup> Aug thru 8 Dec 2017</b>	Office Hours	<b>Monday thru Thursday 12:25-1:25 pm room 901.</b>
Class Days	<b>Tuesdays &amp; Thursdays</b>	Office Phone #	<b>760-355-6150.</b>
Class Times	<b>6:00 pm to 9:10 pm 4 credit hours (units)</b>	Office contact if student will be out or emergency	<b>Please use Email</b>
Units			

### Course Description

**Required language:** This course teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help desk technicians. It provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in home and small business environments. (Nontransferable, AA/AS degree only)

### Textbooks & Other Resources or Links

#### Required Information—discretionary language

[Introduction to Networks v6 Companion Guide](#)

Print: 9781587133602 / eBook: 9780134655635 [Cisco Press](#).

- Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time.

- . Cisco Simulation Software. Packet Tracer 6.2. Available from the Cisco site.
- Not required but recommended. Cisco CCENT/CCNA ICND1 100-101 Official Cert Guide from Cisco Press. Copyright 2014. Edition: 1st ISBN-10: 1-58714-385-2 ISBN-13: 978-1-58714-385-4. Wendell Odom.

### Course Requirements and Instructional Methods

#### Required Information—discretionary language

Discussion

Group Activity

Individual Assistance

Lab Activity

Lecture

Simulation/Case Study

Audio Visual

Demonstration

Two (2) hours of independent work done out of class per each hour of lecture or class work, or 3 hours lab, practicum, or the equivalent per unit is expected.

Out of Class Assignments:

Submit a plan for installation of a small business network and share it with class. Research ways to verify and troubleshoot network and Internet connectivity and submit an outline of steps in the process. Research an information technology problem, find solutions, formulate recommendations, and document the process.

Reading and Writing:

Research security threats to a home or small business network and describe ways to mitigate those threats in a report using college level writing standards. Describe in detail how to configure and verify common Internet applications and basic IP services through a GUI. Explain principles of communication and of communication on a local wired network. Describe IP addresses and subnet masks, distinguish between types of IP addresses, and explain how IP addresses are obtained

**Course Grading Based on Course Objectives**

**Required Information—discretionary language**

<b>Grading:</b>	Chapter Exams.....	.....	30%
	Lab Assignments and projects .....		20%
	Skills Based Assessment.....		25%
	Final .....		25%

The grading scale is:	90 to 100% = A	70 to 79% = C
	80 to 89% = B	60 to 69% = D

Interaction with the instructor and other students is an integral part of the learning process. However, you must personally use the keyboard and mouse in completing the assignments. All work submitted for grading must be your own. Cheating will result in an 'F' for the assignment or an 'F' for the course. Ethical conduct is an absolute requirement in the IT profession.

**Attendance**

**Required language**

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online

courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.

- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

### Classroom Etiquette

#### Required Information --Discretionary language

This is where an instructor explains his/her policy on these matters. Here is some suggested language:

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor. **Consider:** specifics for your class/program
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

### Academic Honesty

#### Required Language

- Plagiarism is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question. Anyone caught cheating will receive a zero (0) on the exam or assignment and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following:
  - plagiarism
  - copying or attempting to copy from others during an examination or on an assignment;
  - communicating test information with another person during an examination;
  - allowing others to do an assignment or portion of an assignment
  - use of a commercial term paper service

### Additional Help – Discretionary Section and Language

The instructor can add the information pertinent to his or her class here. Some suggested language:

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program
- Library Services: There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.

### Disabled Student Programs and Services (DSPS)

**Required Language:** Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6312 if you feel you need to be evaluated for educational accommodations.

### Student Counseling and Health Services

**Required Language:** Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

### Student Rights and Responsibilities

**Required Language:** Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at

[http://www.imperial.edu/index.php?option=com\\_docman&task=doc\\_download&gid=4516&Itemid=762](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

### Information Literacy

**Required Language:** Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

### Anticipated Class Schedule / Calendar

<b>Week 1</b>	<b>Chapter 1:</b> Exploring the Network
<b>Week 2</b>	<b>Chapter 2:</b> Configuring a Network Operating System
<b>Week 3</b>	<b>Chapter 3:</b> Network Protocols and Communications
<b>Week 4</b>	<b>Chapter 4:</b> Network Access
<b>Week 5 &amp; 6</b>	<b>Chapter 5:</b> Ethernet
<b>Week 7</b>	<b>Chapter 6:</b> Network Layer
<b>Week 8 &amp; 9</b>	<b>Chapter 7:</b> Transport Layer
<b>Week 10 &amp; 11</b>	<b>Chapter 8:</b> IP Addressing
<b>Week 12 &amp; 13</b>	<b>Chapter 9:</b> Subnetting IP Networks
<b>Week 14</b>	<b>Chapter 10:</b> Application Layer
<b>Week 15</b>	<b>Chapter 11:</b> It's a Network
<b>Week of December 7<sup>th</sup>, final</b>	